FW40 Commander™ RIA Users Guide©

Version – 1.0a

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Getting Started

Introduction to FW40 Commander Server Software

The FW40 Commander Server Software provides a simple to use, yet powerful, method of control for all FW40 and FW40D equipped Sony displays over IP based networks.

The FW40 Commander Server Software package contains everything needed to turn an ordinary PC running Windows NT/XP into a powerful server that will host the *FW40 Commander* Rich Internet Application (RIA).

Package Contents

The packing box should contain the following items:

- FW40 or FW40D Unit
- CD containing
  - Installation Software
  - Users Guide (this document)
  - Soft copy of Quick Start Guide
  - Sample Media Clips
  - Open-source third-party Software
- Quick Start Guide
- Warranty Card
- Registration Card

Hardware and Software Requirements (Server)

Hardware

- 150MB Available HDD space
- 512MB or more RAM
- Pentium4 2.5GHz Class Processor or Faster

Software

- Windows™ XP with SP2
- .NET 2.0 Library
- Must **not** have **any** pre-existing HTTP server or FTP server software installed (unless they are listening on alternate non-standard TCP/IP ports).

Browser Requirements (Client)

Due to the Adobe™ Flash content of the RIA, the web client interface is best viewed with:

- Flash Player 8 or Newer
  - http://www.adobe.com/
- Internet Explorer 6 or Newer
  - http://www.microsoft.com/

Installation and Setup

Overview

Because the task of setting up and configuring a full-blown PHP5 and MySQL4 enabled Apache2™ HTTP server can be a daunting task, the installer will handle all of the complex configuration and setup tasks for you.

The installer will install and configure the following third party software packages onto the target system:

- Apache™ 2.2.3
- MySQL™ 5.0.24a
- PHP 5.1.6
- phpMyAdmin 2.9.0.1
- FileZilla™ FTP Server 0.9.18
- OpenSSL 0.9.8d

Please make sure that there are not any pre-existing versions of any of the aforementioned third party packages.

Destination Folders

Main Folder

The target directory on the system is fixed at "C:\FW40Cmdr". All installed software will be contained within this directory.

HTTP Document Root

The "Document Root" of the Apache™ HTTP server will be "C:\FW40Cmdr\www".

Installation and Setup, continued

Installation Procedure

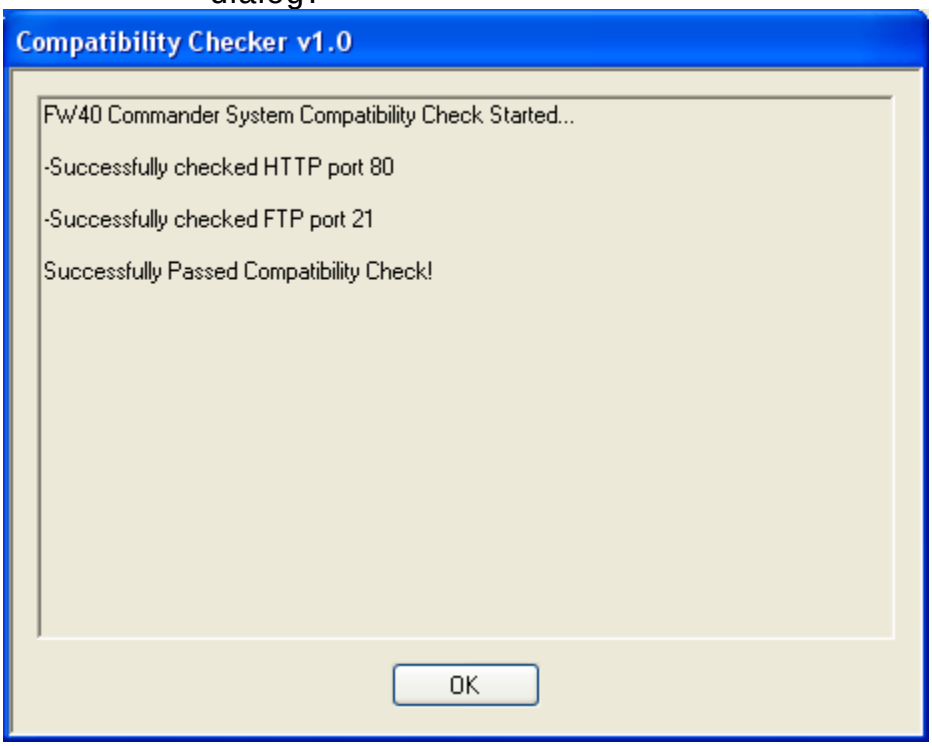
Preparation

1. Make sure none of the following software packages are already installed. If they are, then uninstall them before proceeding.
    - Any HTTP Server listening to Port 80
        - Apache
        - IIS
        - etc
    - Any FTP Server listening to Port 21
    - MySQL (All versions)
2. Close all other applications that might be running.

Installation and Setup, continued

Installation

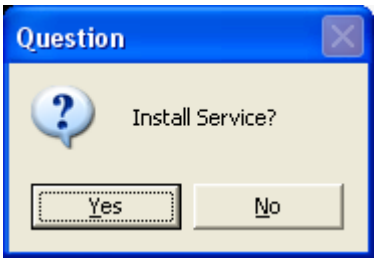
3. Insert Installation CD into Target PC's CD ROM drive. Once you select the "Install SW" option on the CD Menu, the installation process should start. In case it does not, then browse to the CD drive in "My Computer" and run "setup.exe" to begin the installation process.
4. Follow the "On Screen" instructions.
5. If there were no problems detected by the Compatibility Checker, you should see this dialog:

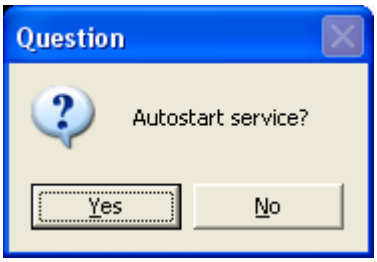

Compatibility Checker v1.0
FW40 Commander System Compatibility Check Started...
-Successfully checked HTTP port 80
-Successfully checked FTP port 21
Successfully Passed Compatibility Check!
OK

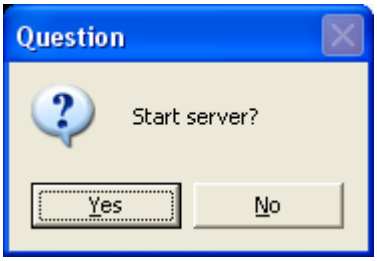
If there were any problems detected, then they will be listed in the Compatibility Checker log. You must take care to clear up the problems or else the installer will refuse to install the software. It gives you the chance to retry the compatibility check as many times as you need.

Installation and Setup, continued

6. There will be a series of Question popup dialog boxes near the end of the installation process. They are related to the FileZilla FTP server installation. Please answer them as shown below:

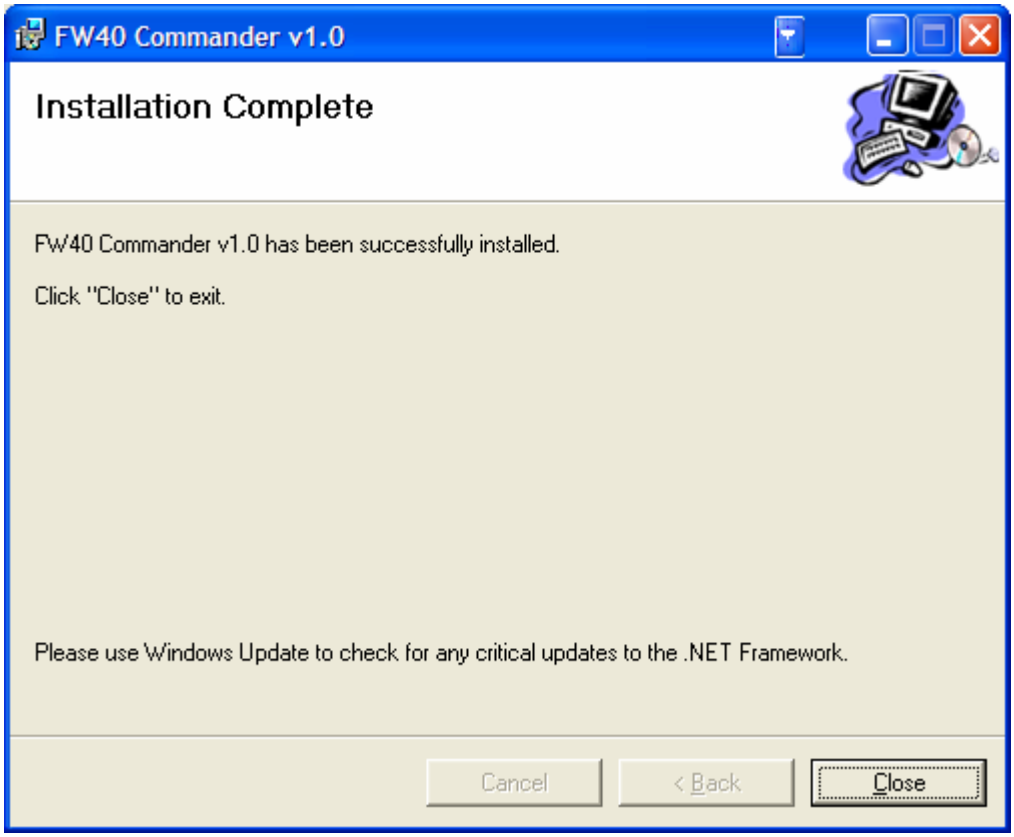






Installation and Setup, continued

7. You should see the following screen if all was successful.


FW40 Commander v1.0
Installation Complete
FW40 Commander v1.0 has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
< Back
Close

Installation and Setup, continued

Setup

Edit Index.html

Open the file “c:\FW40Cmdr\www\Index.html”. Replace both instances of “localhost” with the IP Address (or domain name) of your server on the LAN. If you do not know the IP Address, then open a “cmd” window and type “ipconfig”. This can be done using a string replacement feature of any text editor by replacing “localhost” with “192.168.0.10” (as an example IP Address).

Using the Software

Server-Side Controls

Starting the Services

The newly installed services (Apache2, MySQL, FW40CmndrWinService, FileZilla) should all be started after a successful installation and upon any subsequent reboots of the server. If, for some reason, the services are not running, you can restart them by:
Start->All Programs->FW40CmdrServer->Start Services

Stopping the Services

Before uninstalling, or if you just want the take the server offline, you need to stop the FW40Commander Windows Service and the other services by:
Start->All Programs->FW40CmdrServer->Stop Services

Using the Software, continued

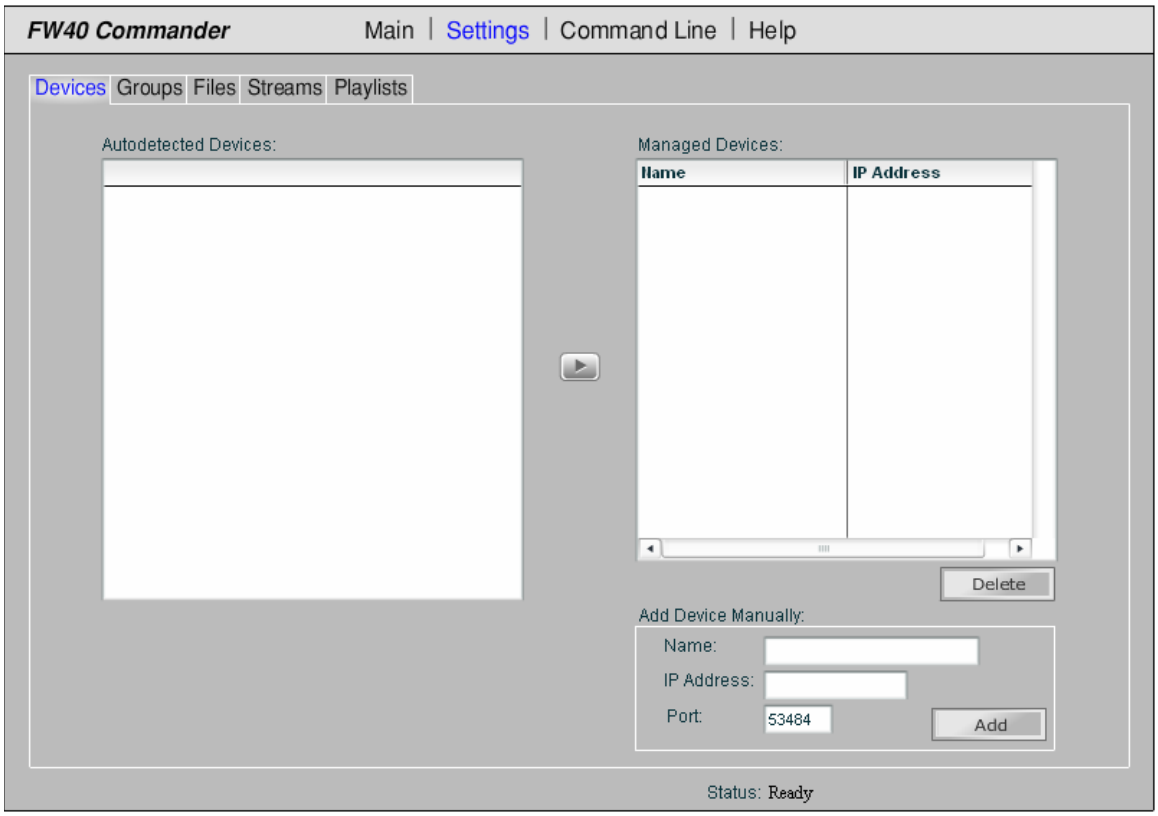
Rich Internet Application (Client Browser)

Now that your server is online, you should enter the domain name or IP Address of your server into your browser's address bar. This resulting Rich Internet Application is the main point of control for the system.

Any web client that is able to access your server, can also serve as a point of control for the system.

Using the Software *(Settings)*

Settings Screen

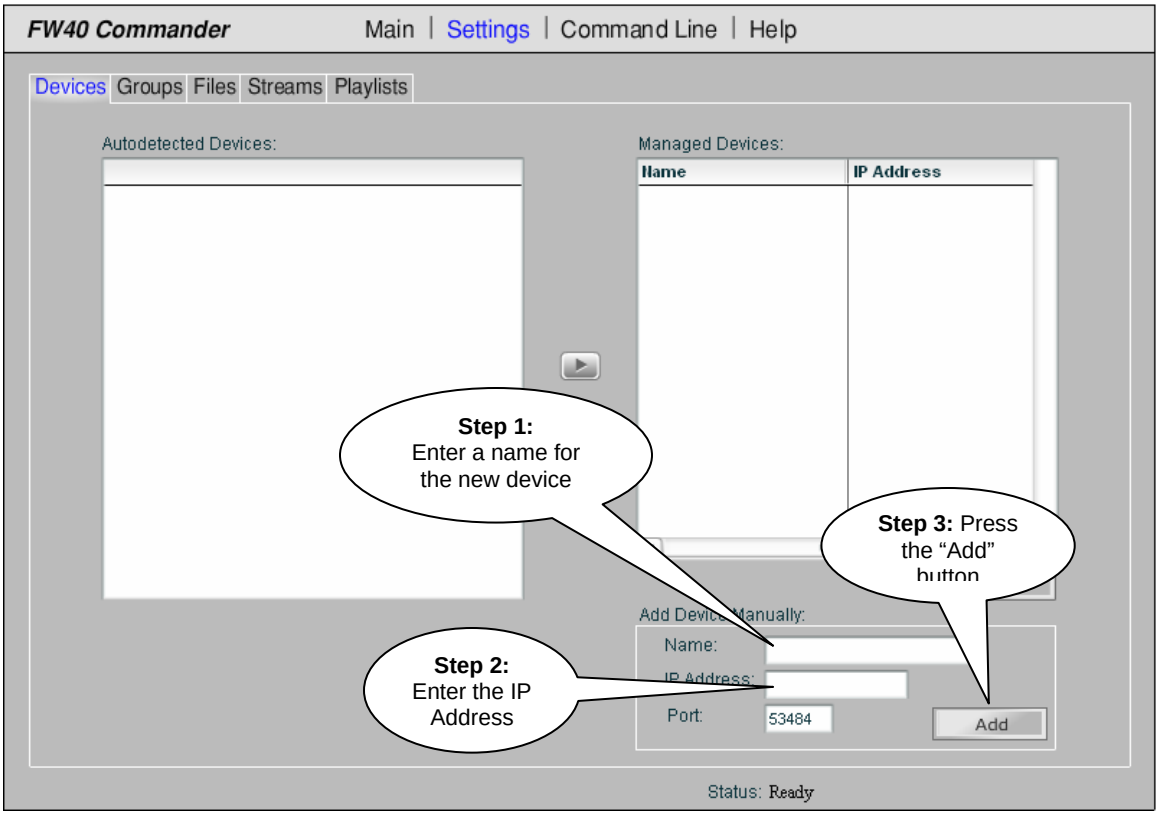


The Settings Screen provides the functions needed to add devices, streams, files, and create playlists to name a few. The following tabbed pages exist under the Settings screen:

- Devices
- Groups
- Files
- Streams
- Playlists

Using the Software *(Settings)*, continued

Adding Devices

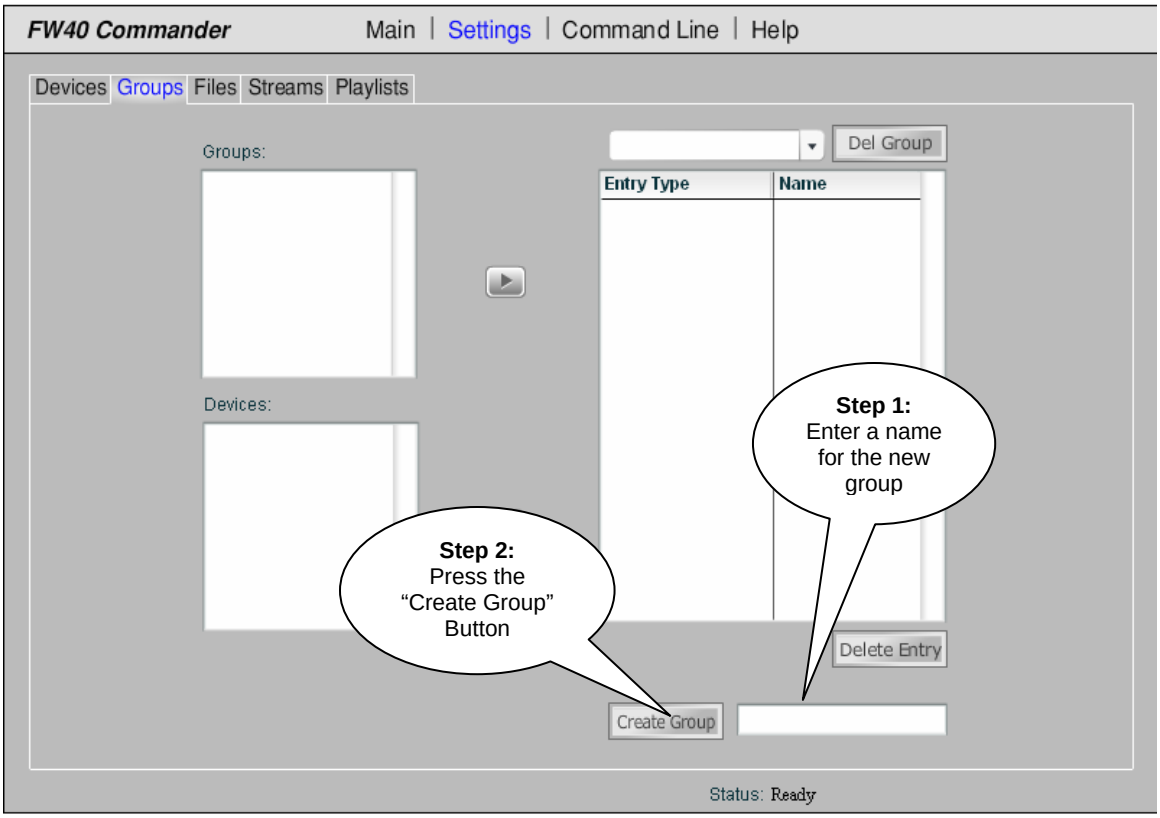


For ease of use, the default Port setting of 53484 is already filled in. It does not need to be changed unless you need to access the device though a router from a WAN. If this is the case, you will need to perform the following alternate steps to add each of the devices:

1. Decide upon a unique port number that is not already in use by the router. (i.e. it is not already being forwarded from the WAN to the LAN.)
2. Configure your router to forward the unique port number you chose in step 1 from the WAN side to port 53484 and the IP Address of the device on the LAN side.
3. Enter the following values into the form above and press "Add" once for each device you would like to add:
    - Name: A unique identifier.
    - IP Address: The IP Address of the router on the WAN.
    - Port: The port number you chose in step 1.

Using the Software *(Settings)*, continued

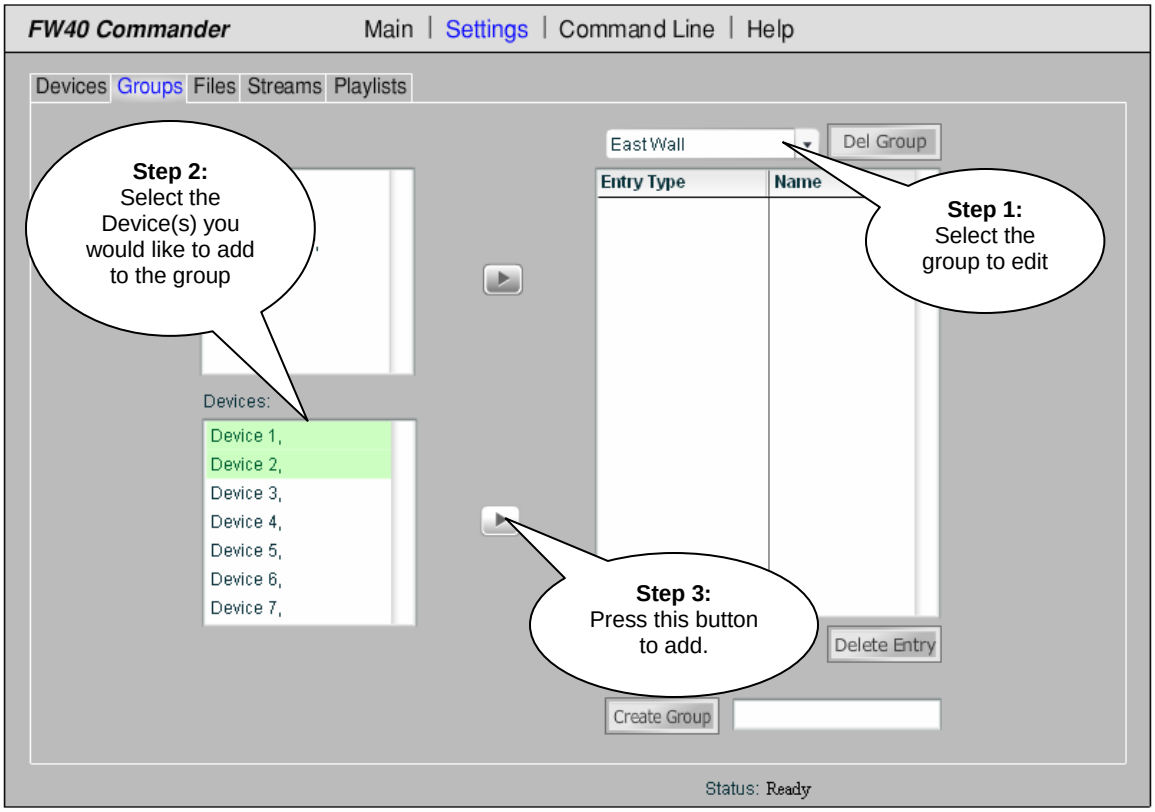
Creating Groups



Groups are a convenient way of organizing devices. Once a group is made, you can control all devices within that group as a unit.

Using the Software *(Settings)*, continued

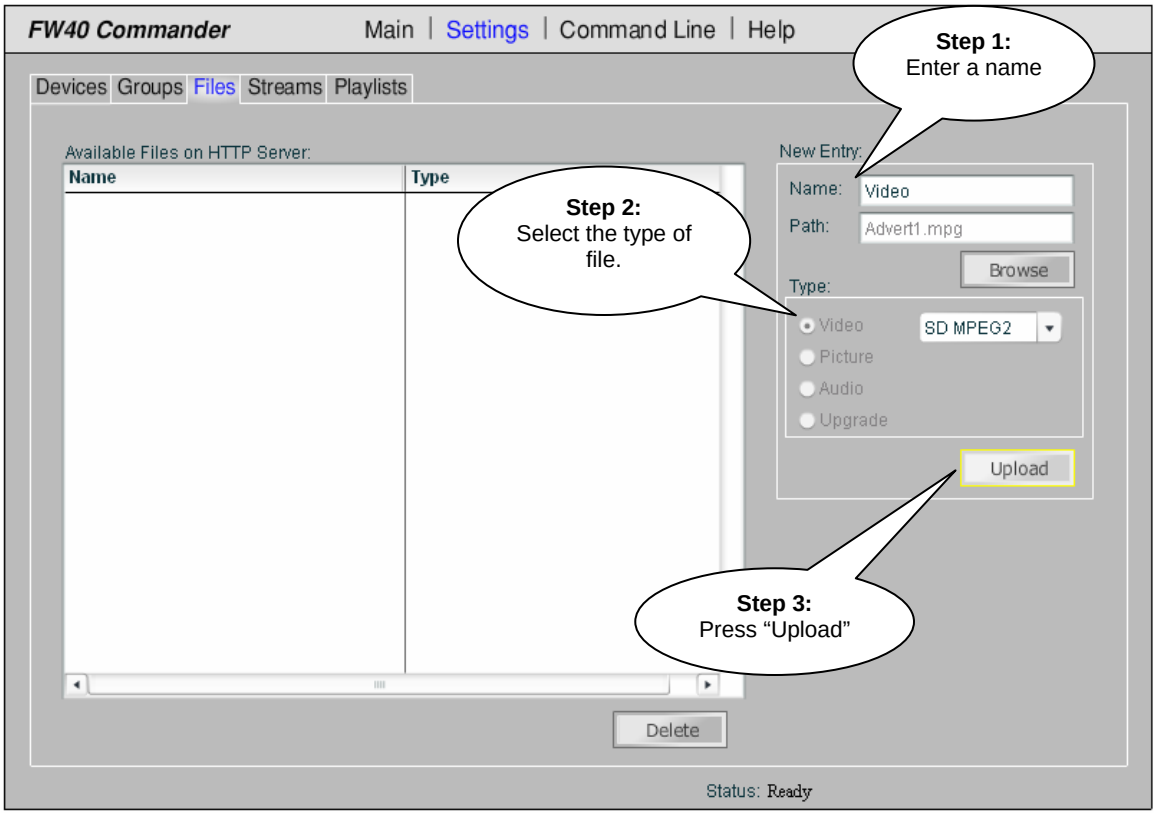
Adding Devices to Groups



You can also add other groups to the group by following the same general procedure except selecting groups to add instead of devices.

Using the Software *(Settings)*, continued

Uploading Media Files to Server



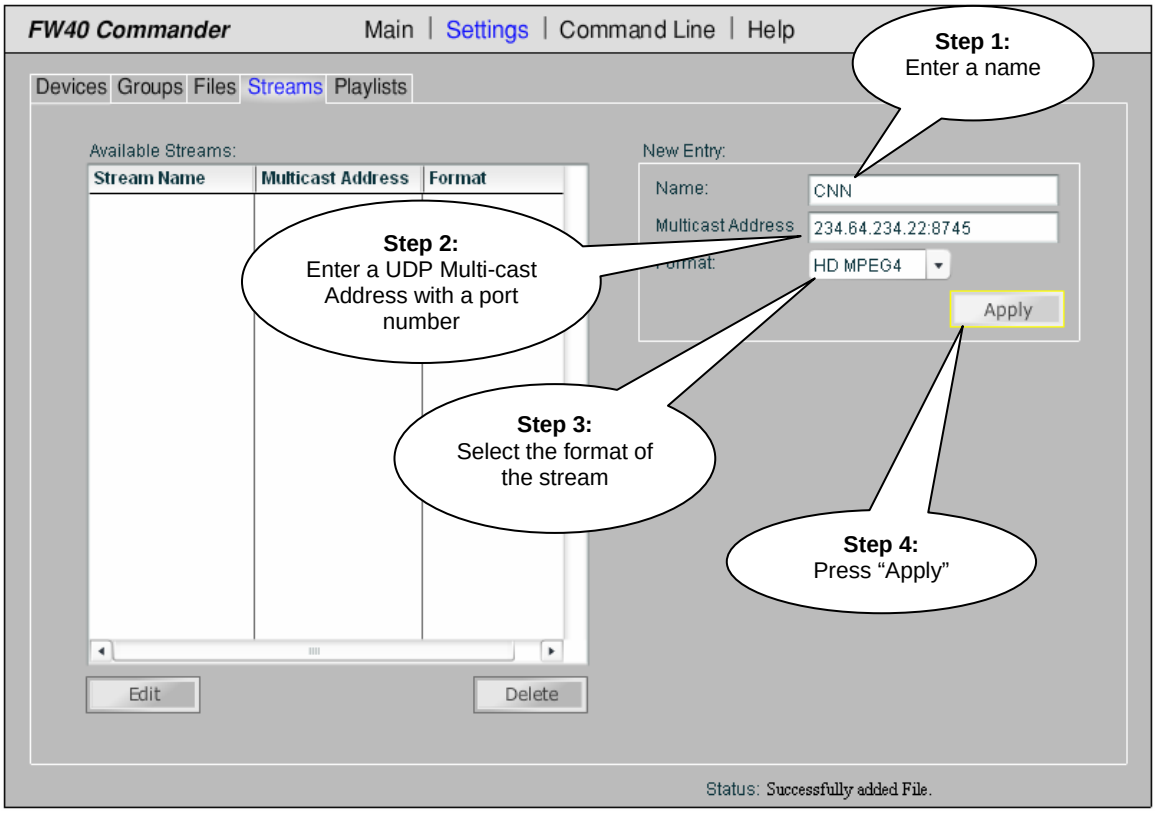
All media files that you would like to play on any devices, will need to be registered and uploaded to the server via this screen.

If you attempt to upload a file greater than 100MB, then an alternate FTP upload method will appear. When this occurs, you will be required to drag and drop the large file into the FTP browser that will pop up. Once the transfer has completed, the file will be registered and ready for use.

An alternate way to add ***Video*** files is to copy them directly to the following directory on the server that is running the FW40 Commander Software: *C:\FW40Cmdr\www\uploads\video* They will be detected and registered automatically.

Using the Software *(Settings)*, continued

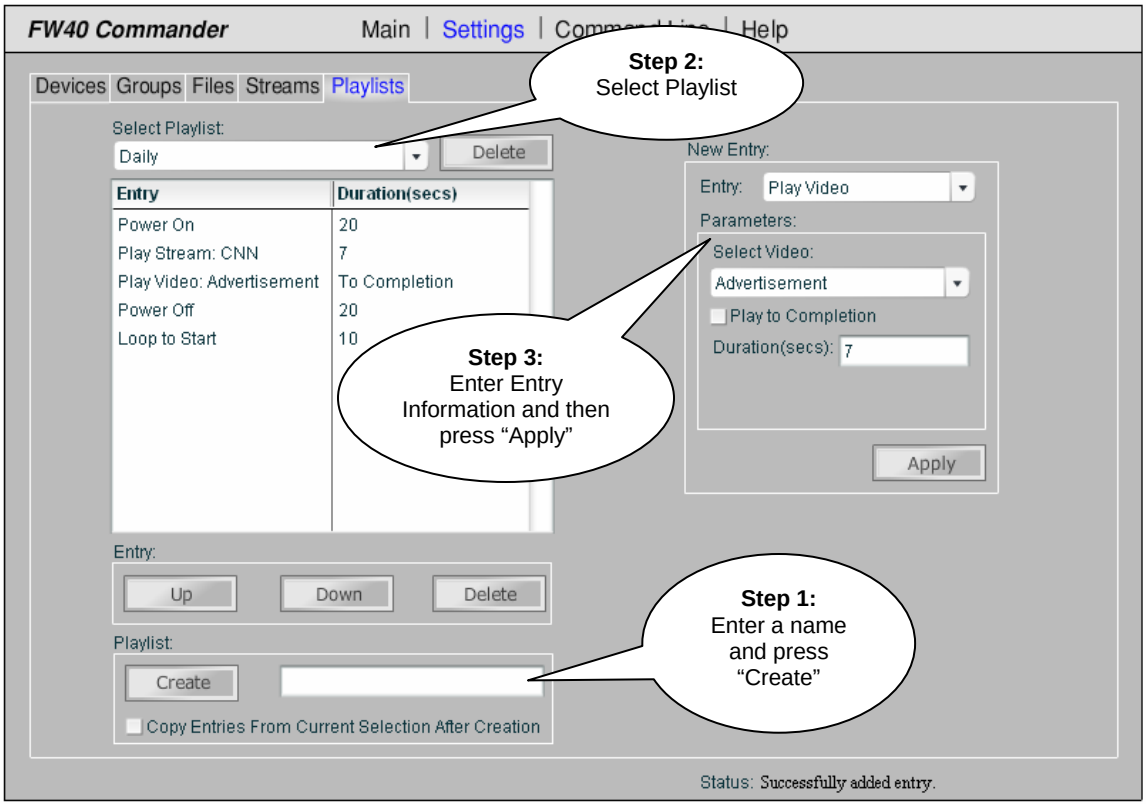
Registering Streams



All streams must be registered in order to be able to play them manually, as part of a playlist, or as a scheduled event. The format of the stream is saved for information purposes only.

Using the Software *(Settings)*, continued

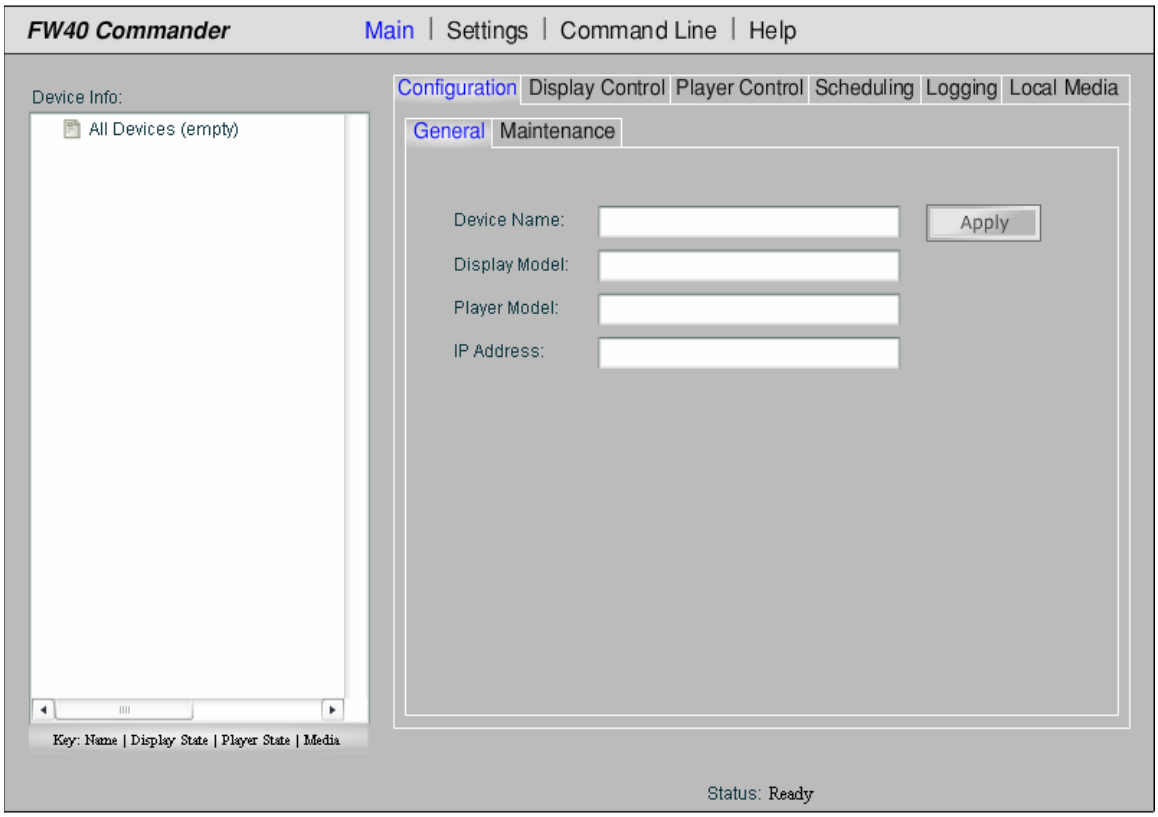
Creating Playlists



A playlist is a powerful method for creating synchronized content across several displays. Once you create one, you also have the option of creating new ones based upon the entries in any pre-existing one.

Using the Software *(Main)*

Main Screen



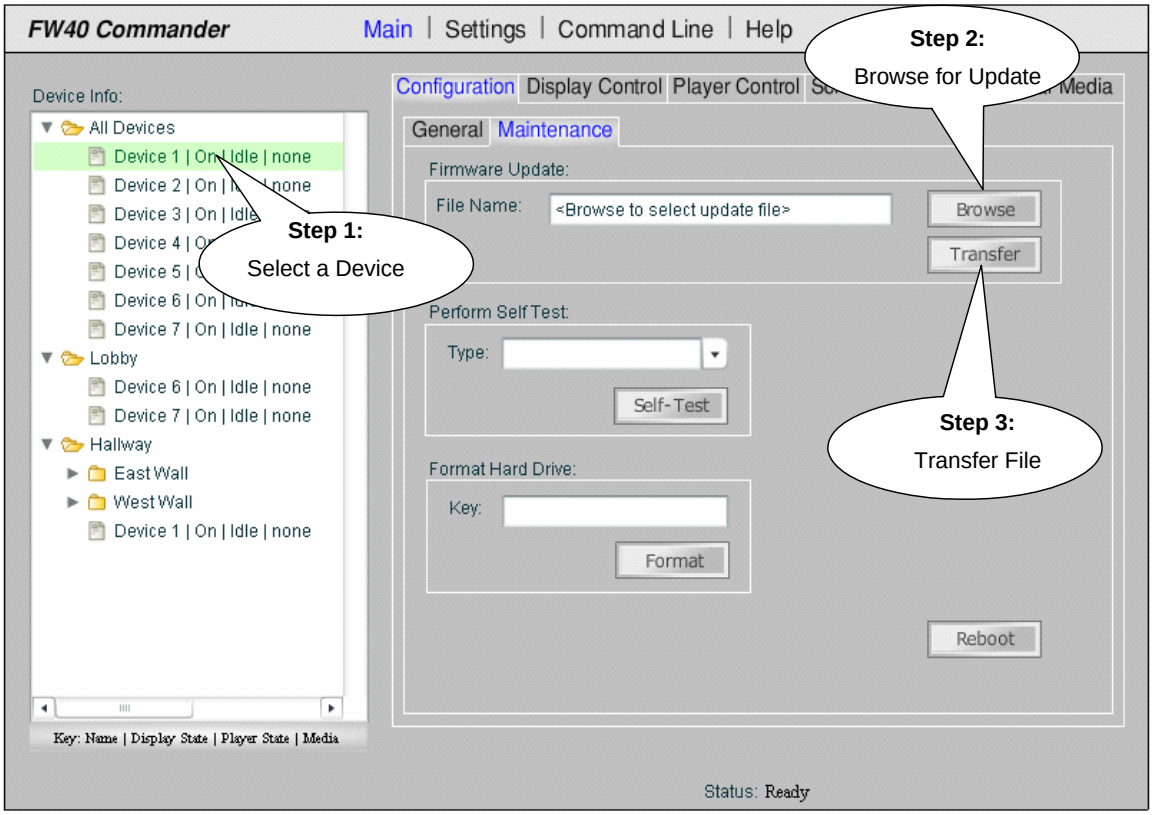
The Main Screen provides active controls for playing files, streams, playlists as well as displaying real-time status of all devices. The following tabbed pages exist under the Main screen.

- Configuration
  - General
  - Maintenance
- Display Control
- Player Control
- Scheduling
- Logging
- Local Media

The first logical place to start, if you are just getting started, would be to add new devices using the Settings->Devices page (Next section).

Using the Software *(Main)*, continued

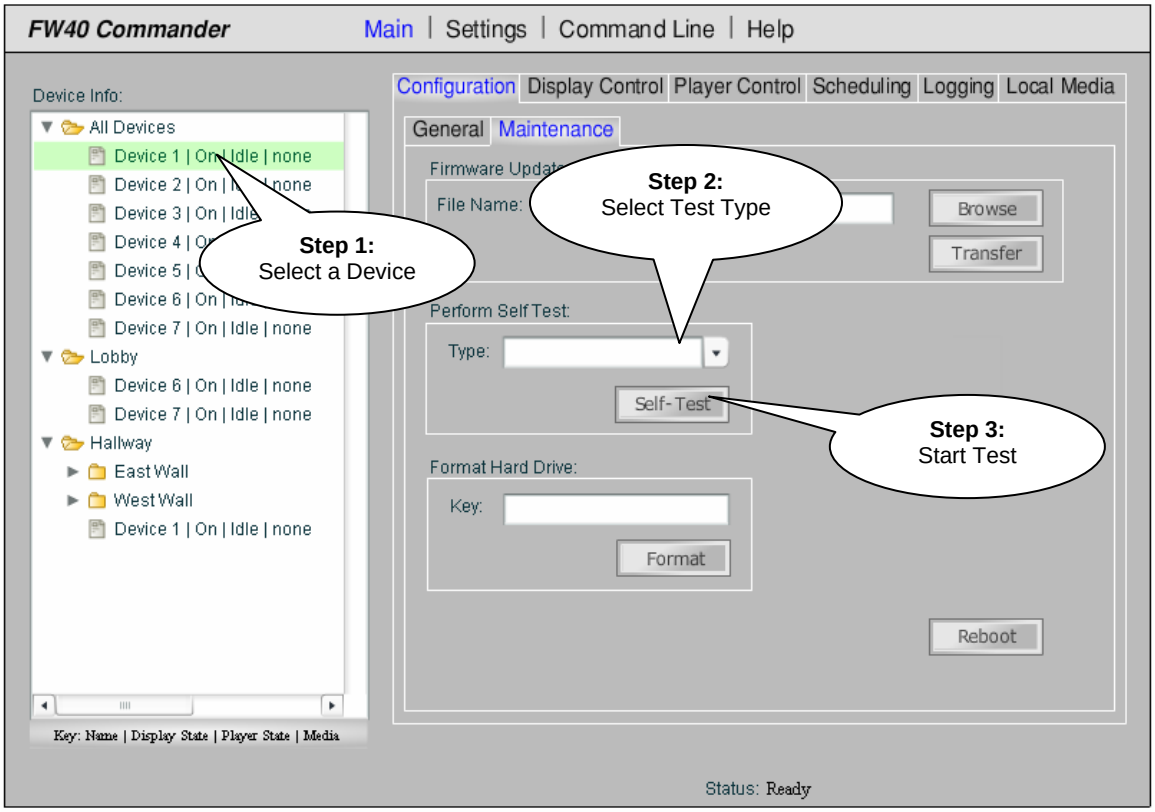
Upgrading Firmware



Following the procedure shown above will start a process which will update a device or group of devices with a new firmware image. Please make sure that the file you upload is compatible with the device(s) you plan on updating with it. When the firmware upgrade process begins, the device(s) will become inoperative for ~7minutes while they download the image from the server and burn it into their Flash. You can track the progress in the Device Info tree.

Using the Software *(Main)*, continued

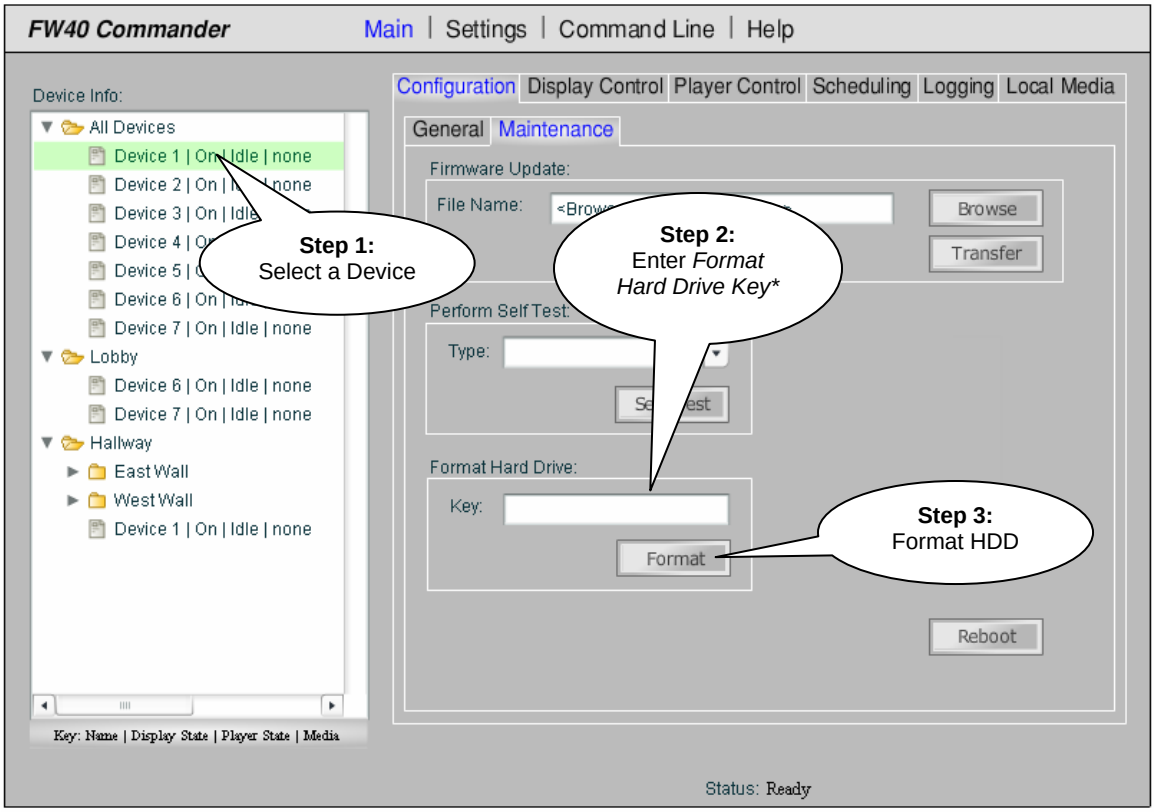
Performing a Self Test



Following the procedure shown above will start a process which will initiate a self-test on a device or group of devices. You can track the progress in the Device Info tree. The results will be in the device's log file.

Using the Software *(Main)*, continued

Formatting a FW40D HDD

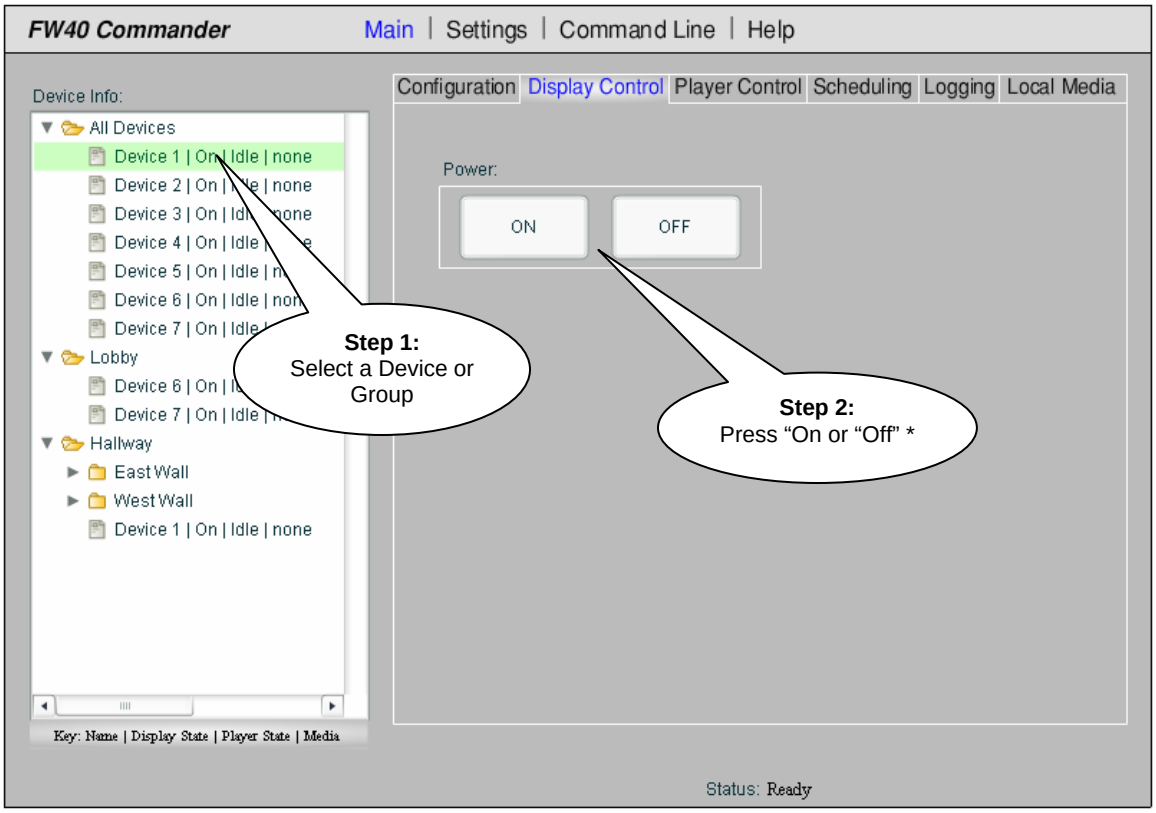


Following the procedure shown above will start a process which will format the HDD of a device. This is a necessary first step for the FW40D type devices to become operational. You can track the progress in the Device Info tree.

* The *Format Hard Drive Key* can be found on the Quick Start Guide that accompanying the unit.

Using the Software *(Main)*, continued

Turning Displays "On" or "Off"

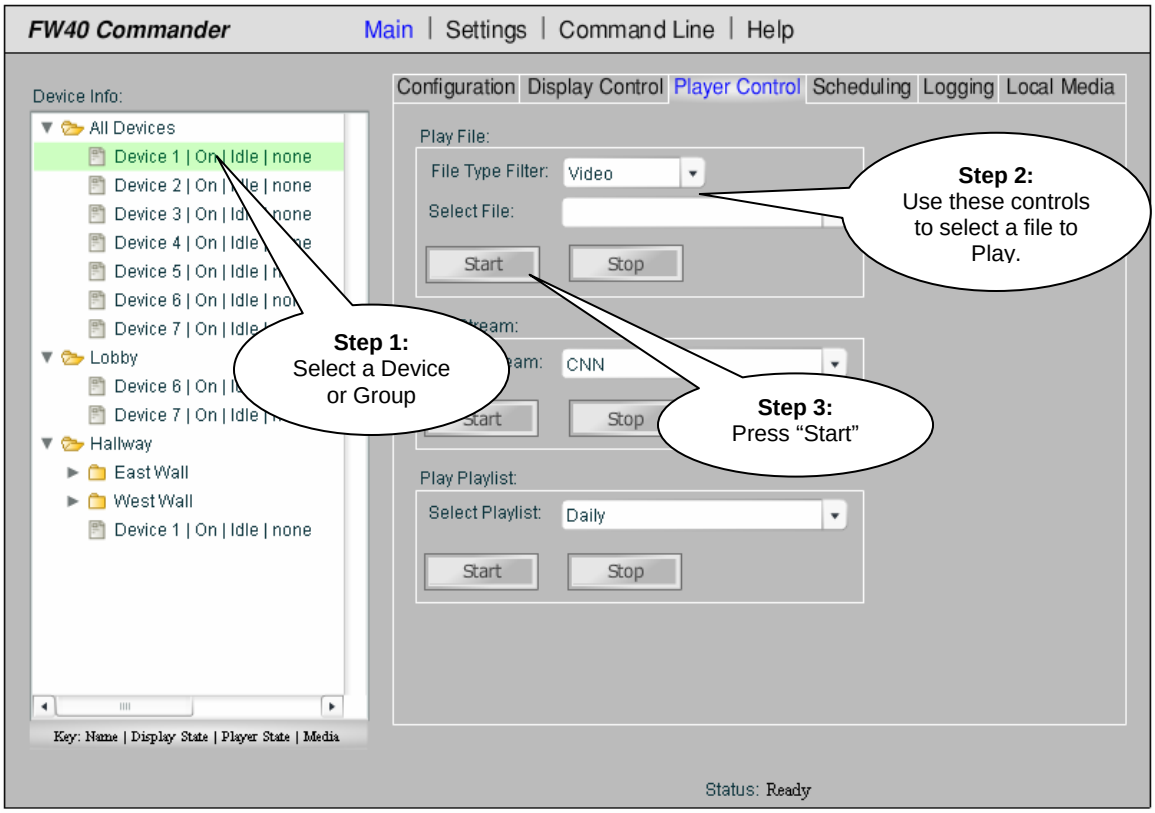


This is the manual method for controlling the display power state of a device or a group of devices. Playlists and scheduled events can also change the display power state.

* Please note that it can take up to 30 seconds for a display to turn on/off and stabilize. There is no need to press the "On" or "Off' button again if the display does not immediately turn on or off.

Using the Software *(Main)*, continued

Playing Files

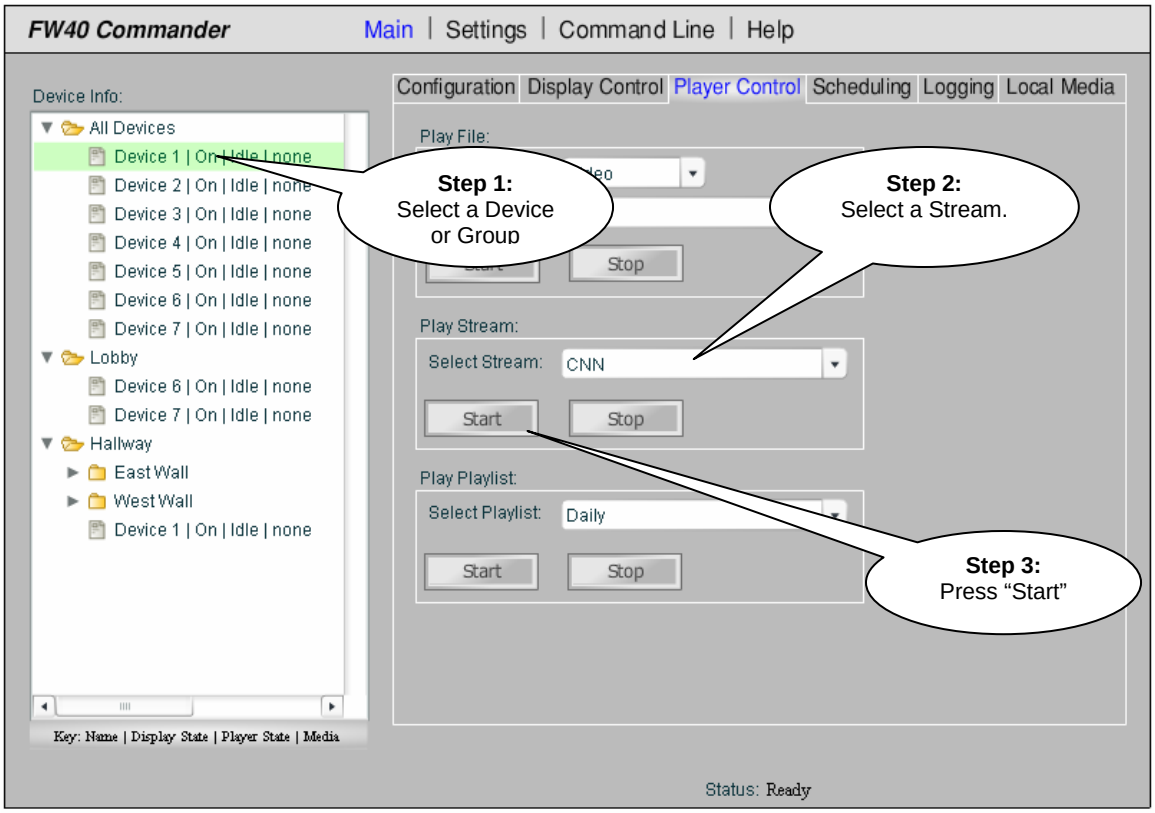


This is the manual method for controlling the player state of a device or a group of devices.

This control will only be enabled for FW40D devices and groups that only contain FW40D devices. The list of files to select from is comprised of all the files local to a particular device. For a group, it is comprised of the 'intersection' set of files within a group.

Using the Software *(Main)*, continued

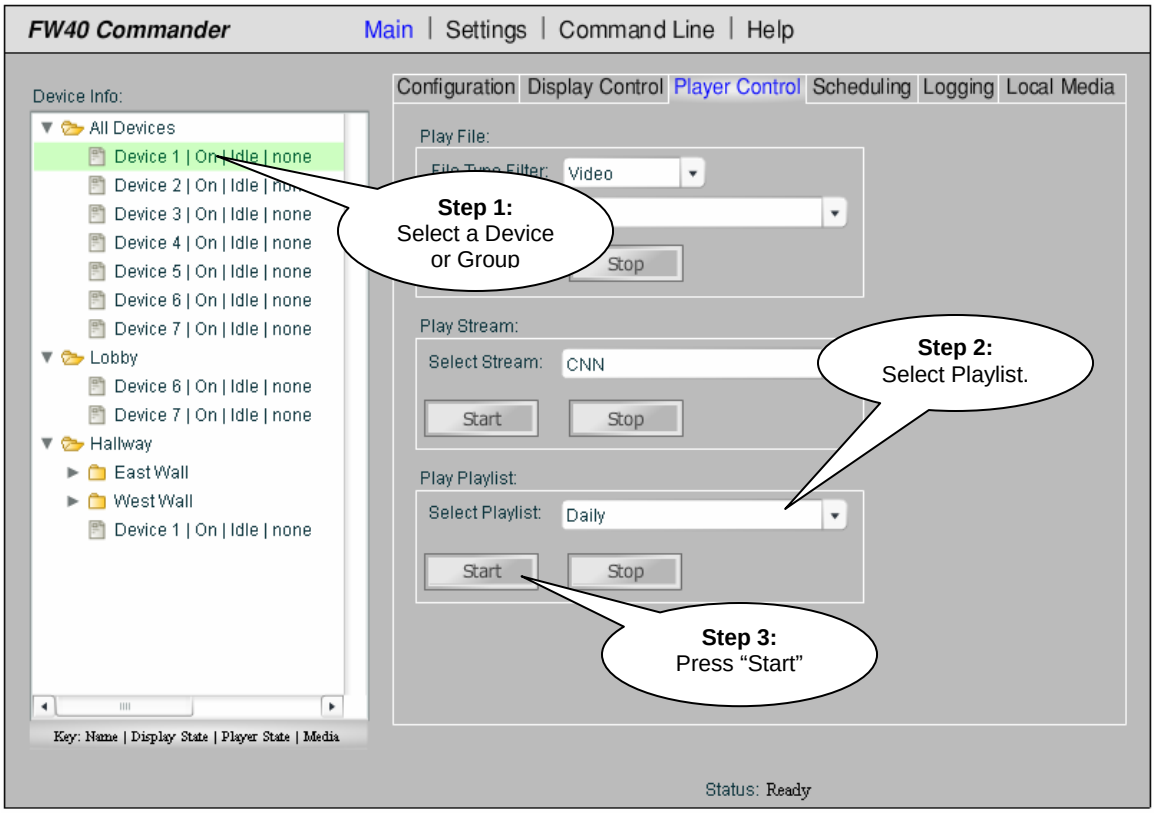
Playing Streams



This is the manual method for controlling the streaming player state of a device or a group of devices. The stream must be registered via the Settings screen for it to appear in the Select Stream list.

Using the Software *(Main)*, continued

Playing Playlists

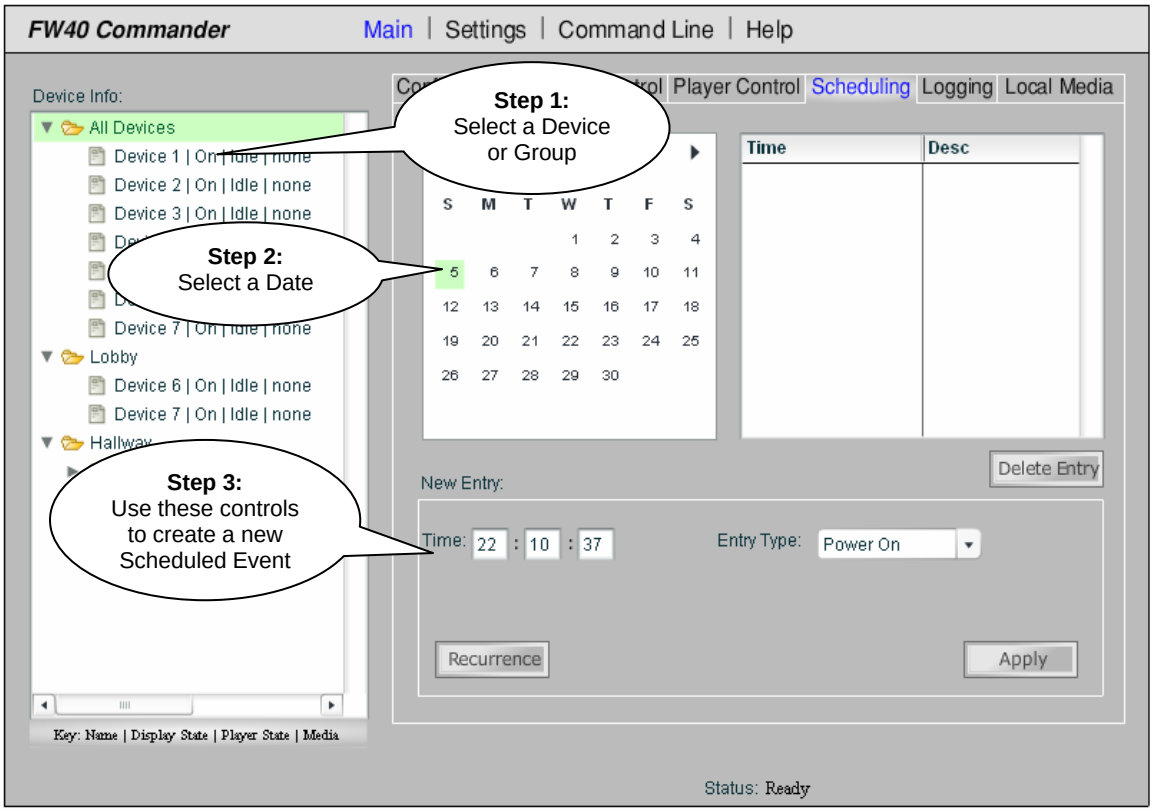


This is the manual method for controlling the player state of a device or a group of devices.

The list of playlists to select from depends upon whether the selected device is a FW40 or a FW40D device. If it is a FW40D, then all available playlists will be displayed. If not, then only the playlists that do not contain file type media, will be displayed. The same holds true for the type of group that is selected. Only if the group is comprised of only FW40D devices, will all available playlists be displayed.

Using the Software *(Main)*, continued

Scheduling Events

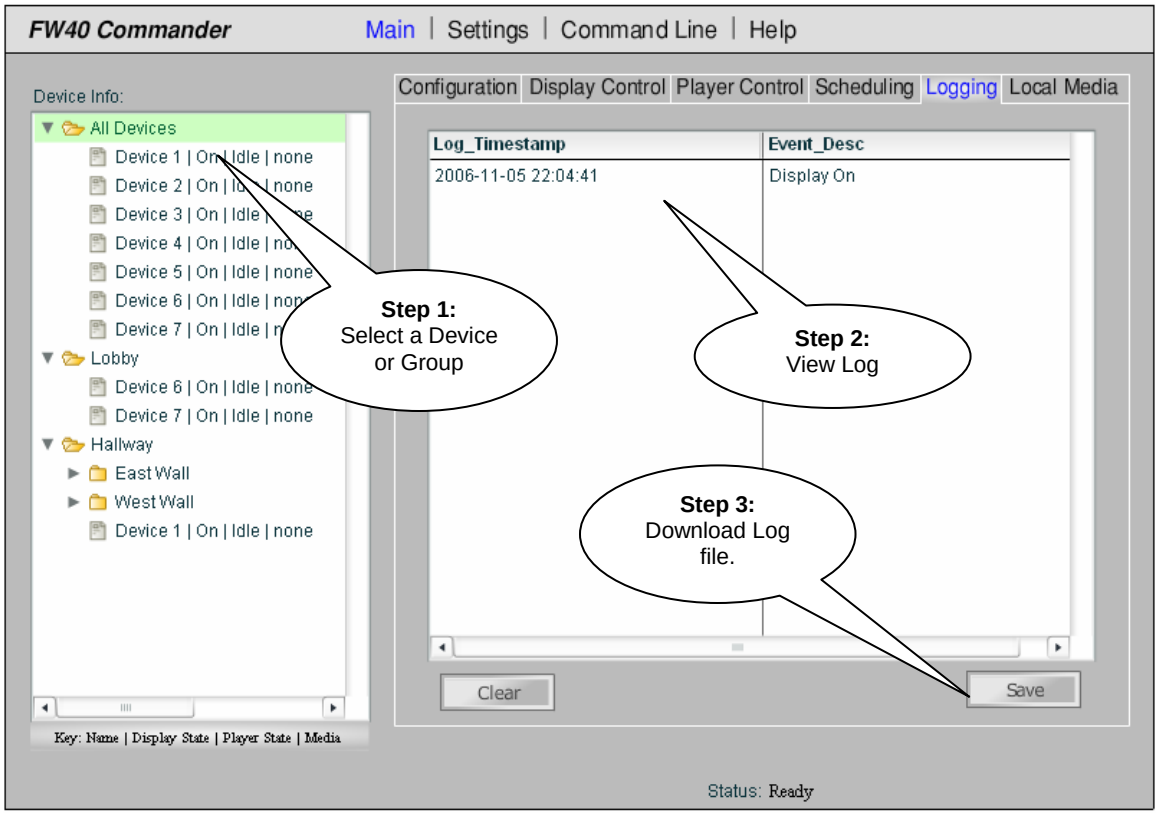


This is screen in which you can create scheduled events.

This ability to schedule files or playlists that contain files will only be enabled for FW40D devices and groups that only contain FW40D devices. The list of files to select from is comprised of all the files local to a particular device. For a group, it is comprised of the 'intersection' set of files within a group.

Using the Software *(Main)*, continued

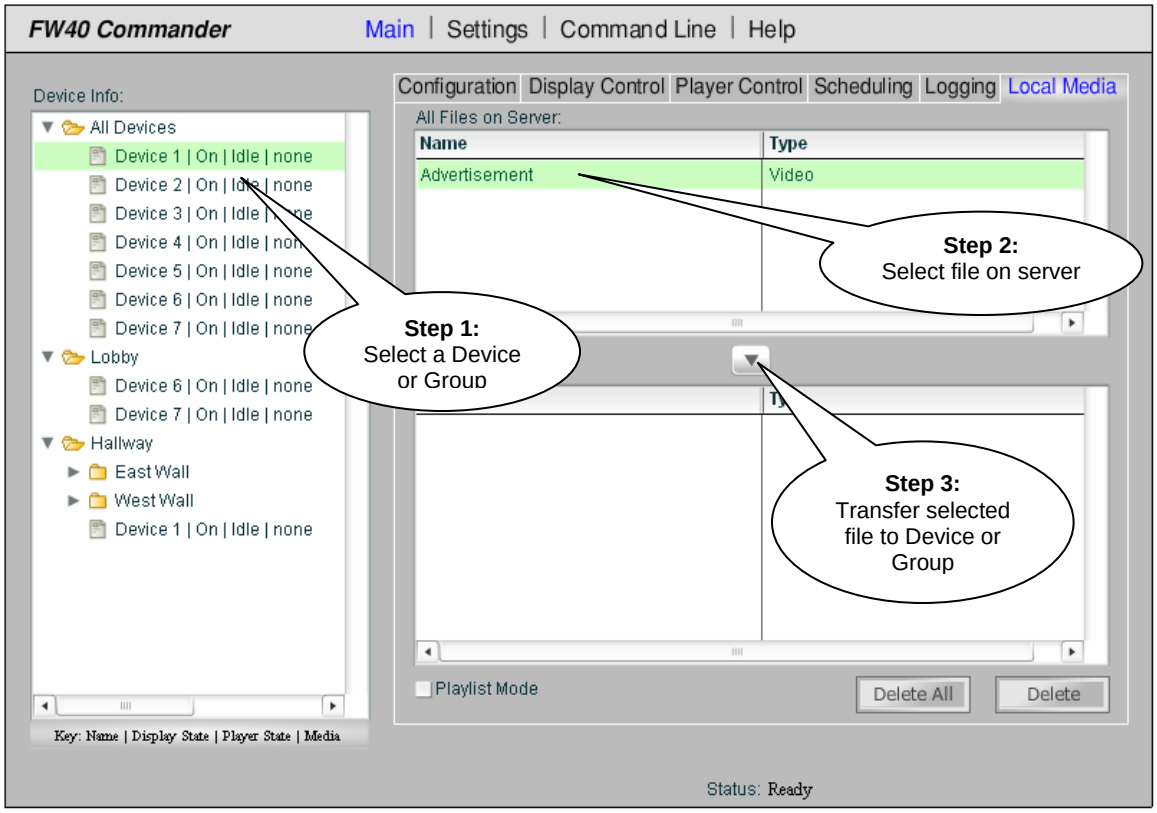
Displaying and Saving Logs



The activities of a device or group can be viewed from this screen. Also, you may Clear or Save the log if you desire. The results of any device self-tests will be displayed here as well.

Using the Software *(Main)*, continued

Managing Local Media



Once there are files uploaded to the server from the Settings->File screen, you should be able to transfer them to individual FW40D devices from this screen. This is a necessary step if you need to play the file from the device since the file must be present on its local HDD in order to do so.

This screen shows you what files are on each device and allows you to transfer files from the server to a device or group.

If you select the Playlist Mode, then you will be able to see all files on the server that are part of a particular playlist to more easily transfer them all to a device or group.